



12SX7-GT

12SX7-GT TWIN-TRIODE AMPLIFIER

For use with 12-cell storage-battery supply

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage. 12.6 ac or dc volts

Current. 0.3 amp

Direct Interelectrode Capacitances (Approx.):^o

	Triode Unit No. 1	Triode Unit No. 2
Grid to Plate.	3.6	3.6
Grid to Cathode.	3.0	2.8
Plate to Cathode.	0.8	1.2

Mechanical:

Mounting Position. Any

Maximum Overall Length. 3-5/16"

Maximum Seated Length. 2-3/4"

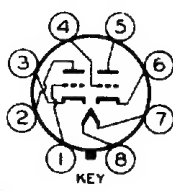
Maximum Diameter. 1-5/16"

Bulb. T-9

Base. Intermediate Shell Octal 8-Pin

Basing Designation for BOTTOM VIEW. 8BD

- Pin 1-Grid of Unit No. 2
- Pin 2-Plate of Unit No. 2
- Pin 3-Cathode of Unit No. 2
- Pin 4-Grid of Unit No. 1



- Pin 5-Plate of Unit No. 1
- Pin 6-Cathode of Unit No. 1
- Pin 7-Heater
- Pin 8-Heater

CLASS A₁ AMPLIFIER

Values are for each unit

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE.	300 max.	volts
GRID VOLTAGE:		
Negative bias value.	50 max.	volts
Positive bias value.	0 max.	volts
CATHODE CURRENT.	20 max.	ma.
PLATE DISSIPATION:	2.5 max.	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	90 max.	volts
Heater positive with respect to cathode	90 max.	volts

Typical Operation and Characteristics:

Plate Voltage.	26.5	90	250	volts
Grid Voltage:				
From a fixed supply of	-	0	-8	volts
From a grid resistor of	0.05	-	-	megohm
Amplification Factor	21	20	20	
Plate Resistance	11500	6700	7700	ohms

^o with no external shield.

JUNE 20, 1946

TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

TENTATIVE DATA

12SX7GT



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Transconductance	1800	3000	2600	μ mhos
Plate Current.	1.8	10	9.0	ma.

Maximum Circuit Values (for maximum rated conditions):

Grid-Circuit Resistance per unit. 1.0 max. megohm

Typical Operation with Resistance Coupling:

See RESISTANCE-COUPLED AMPLIFIER CHART, Type 6F8-G.

*The curves under Types 6J5 and 6SN7-GT
also apply to each unit of the
12SX7-GT*

JUNE 20, 1946

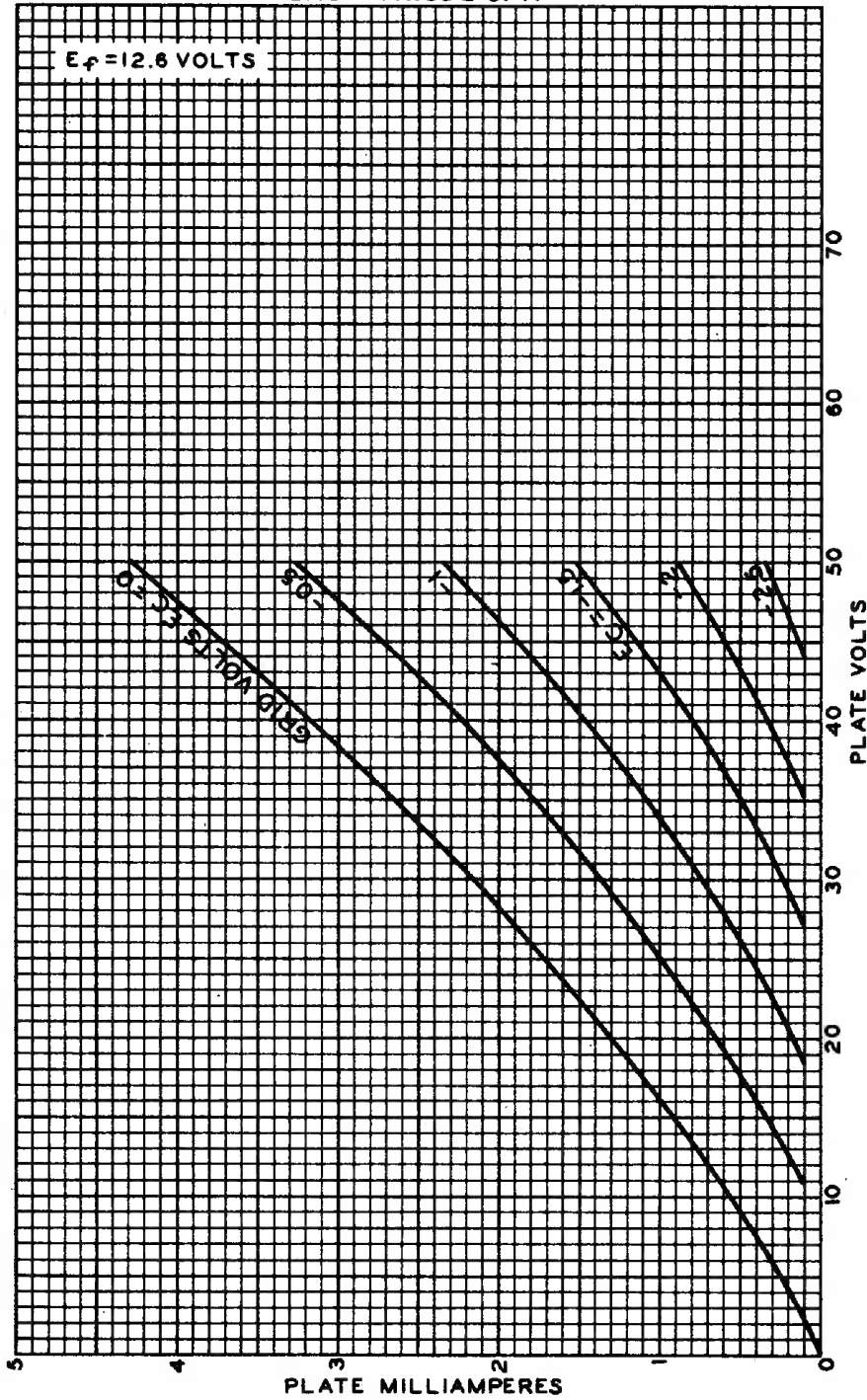
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TENTATIVE DATA



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AVERAGE PLATE CHARACTERISTICS
EACH TRIODE UNIT



JULY 11, 1946

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-6782